

VERSIONS WITH MARKINGS TO SHOW CHANGES MADE

4. The method of producing the ceramic member as set forth in claim 2[or 3], wherein the acid etchant is a sulfuric acid or a water solution thereof, otherwise a phosphoric acid or a water solution thereof.

7. The surface rugged ceramic member as set forth in claim 5 [or 6], wherein the dense base material is 90 wt% or higher of a theoretical density.

8. The surface rugged ceramic member as set forth in [any one of] claim[s] 5[or 6], wherein the dense base material is alumina, yttrium aluminum garnet, aluminum nitride, yttria, zirconia, and calcium phosphate based ceramics.

11. The method of producing the surface rugged ceramic member as set forth in claim 9[or 10], wherein the acid etchant is pressurized with 0.2 MPa or higher.

12. The method of producing the surface rugged ceramic member as set forth in [any one of]claim[s] 9 [or 10], wherein the acid etchant is a water solution containing sulfuric acid or phosphoric acid.

13. The method of producing the surface rugged ceramic member as set forth in [any one of] claim[s] 9 [or 10], wherein the ceramic base material is carried out on the surface thereof with a heat treatment at temperatures of 2/3 or higher of a melting point of the ceramics after the corrosion treatment with the acid etchant.

16. The surface rugged ceramic member as set forth in claim 14[or 15], wherein the dense ceramic base material comprises one kind or more of alumina, yttrium aluminum garnet, aluminum nitride, yttria, and zirconia.